

ABSTRACT OF THE DISCLOSURE

1 An electronic throttle controller adjusts vehicle acceleration based on accelerator
2 pedal movement. The controller compares a rate of change of a pedal voltage
3 with a rate of change of a filtered pedal voltage. The filtered pedal voltage
4 depends on filter alpha values that vary as a function of engine speed divided by
5 vehicle speed. If the rate of change of the pedal voltage exceeds the rate of
6 change of the filtered pedal voltage by a threshold, the controller selects a
7 performance mode. The performance mode determines how the controller
8 adjusts a transmission ratio and power request damping. Additionally, the
9 controller adjusts a duration of the performance mode based on an acceleration
10 condition. The acceleration condition is indicative of whether engine speed,
11 vehicle speed, and pedal position are constant.